

Hydrographic Services and Standards Committee

Preliminary Report
Future of the Paper Nautical Chart

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International Hydrographic Organization
Organisation Hydrographique Internationale

Background

- First idea originates at CPSCWG9 in 2012
 - Discussion about the relevance of INT chart concept expanded to the future of paper charts in general
- HSSC approved work item since 2014
 - Future of the paper chart when users transition from paper charts to ENCs
- This preliminary report has been compiled by NCWG's Future of the Paper Chart Sub Working Group



The Challenge

- The sales of paper nautical charts is declining
- The sales of ENC's is increasing

- Benefit-cost ratio of the raster charts is getting too low to produce
- Demand for paper charts still exists

- Each HO is affected differently



Possible solutions (examples)

| Optimize portfolio | Optimize content | Optimize portrayal | Optimize production |
|---|--|---|--|
| Reduce the number of charts available. | Reduce number of features in each chart. | Reduce manual cartographic editing. | Reduce duplicated work and parallel workflows. |
| May be done through reduced geographical coverage or reduced scales produced. | May be done through reduced level of detail or number of feature classes. | May be done with rule based cartography. | May be done through single source chart production database or similar solution. |
| Extreme case: Stop producing paper charts. | Extreme case: Reduce content to the minimum level still acceptable to IMO. | Extreme case: Chart creation if fully automated with no human interaction needed. | |



Survey

- Considering the limited number of MS participating in writing report and the diversity in their specific issues no clear common ground exist
- For a wider view within the IHO a survey to MS has been drafted
- The survey would be sent out as CL together with the Preliminary Report



Way ahead

10-23 May 2019 HSSC comments on preliminary report and survey to NCWG

10-27 May 2019 NCWG incorporates HSSC comments into FPNC preliminary report and survey and forwards them to IHO Secretariat

By 10 June 2019 IHO Secretariat sends circular letter to IHO Member States

31 August 2019 Deadline for receipt of MS FPNC survey responses

1-30 Sep 2019 NCWG analysis of MS survey results

1-31 Oct 2019 NCWG edits Final FPNC Report via correspondance

5-8 Nov 2019 Complete Final FPNC Report & recommendations at NCWG-5

11-14 May 2020 NCWG presents Final FPNC Report at HSSC-12



Action requested of HSSC

- HSSC is invited to
 - **Note** this preliminary report, and provide any comments it sees appropriate by 23 May 2019
 - **Note** the draft survey, and provide any comments it sees appropriate by 23 May 2019
 - **Endorse** the way forward for finalizing the report

